

# TEXT SEARCHABLE DOCUMENT

DP Barcode: D166690  
Shaughnessy No.: 074801  
Date Out of EFGWB: AUG 9 1991

TO: Christine Rice  
Product Manager # 52  
Special Review and Registration Division (H7508W)

FROM: Emil Regelman  
Supervisory Chemist, Review Section #2  
Environmental Fate and Groundwater Branch  
Environmental Fate and Effects Division (H7507C)

THROUGH: Henry Jacoby, Chief  
Environmental Fate and Groundwater Branch  
Environmental Fate and Effects Division (H7507C)

Attached, please find the EFGWB review of:

Reg./File #(s) : 074801-003125.

Common Name : Tribufos (proposed).

Chemical Name : S,S,S-Tributylphosphorotrithioate.

Product Type : Plant growth regulator/defoliant.

Product Name : DEF.

Company Name : Mobay Corporation.

Purpose : Return of duplicate study.

Date Received: 07/25/91 EFGWB #(s): 91-0795.

Date Completed:

Total Reviewing Time:

Deferrals to: \_\_\_\_\_ Ecological Effects Branch/EFED  
\_\_\_\_\_ Science Integration & Policy Staff/EFED  
\_\_\_\_\_ Non-Dietary Exposure Branch/HED  
\_\_\_\_\_ Dietary Exposure Branch/HED  
\_\_\_\_\_ Toxicology Branch I, II/HED



2060259

1. CHEMICAL:

Common Name: Tribufos (proposed).  
Chemical Name: S,S,S-Tributylphosphorotrithioate.  
CAS No.: 78-48-8.  
Trade Name(s): DEF.  
Chemical Structure:



Formulations: EC (70.5%).

Physical/Chemical Properties of Active Ingredient:

Molecular Formula:  $\text{C}_{12}\text{H}_{27}\text{S}_3\text{PO}$ .  
Molecular Weight: 314.5.  
Physical state: Colorless pale-yellow clear liquid.  
Density: 1.057 g/mL at 20°C.  
Boiling point: 150°C at 0.3 mm Hg.  
Vapor pressure:  $1.7 \times 10^{-6}$  Torr at 20°C;  $7.6 \times 10^{-6}$  Torr at 25°C.  
Solubility: 2.3 ppm in water at 20°C. Completely miscible with n-hexane, methylene chloride, toluene, and 2-propanol.

2. TEST MATERIAL:

N/A.

3. STUDY/ACTION TYPE:

Return of duplicate study.

4. STUDY/DOCUMENT IDENTIFICATION:

Cohle, P. 1990. Uptake, depuration and bioconcentration of  $^{14}\text{C}$ -DEF by bluegill (*Lepomis macrochirus*). ABC Labs Number 38466. Mobay Report Number 100234. Unpublished study performed by Analytical Bio-Chemistry Laboratories, Inc., Columbia, MO, and submitted by Mobay Corporation, Kansas City, MO. (41618818)

5. REVIEWED BY:

Stephanie Syslo  
Environmental Scientist  
Review Section #2  
OPP/EFED/EFWGB

Signature: \_\_\_\_\_

*Stephanie Syslo*

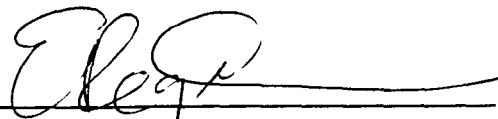
Date: \_\_\_\_\_

*August 7, 1991*

6. APPROVED BY:

Emil Regelman  
Supervisory Chemist  
Review Section #2  
OPP/EFED/EFWGB

Signature: \_\_\_\_\_



AUG 9 1991

Date: \_\_\_\_\_

7. CONCLUSIONS:

The above study (MRID 41618818), submitted under Guideline 72-6 as Mobay Report Number 100234, is identical to another study (MRID 41618811) submitted under "FIFRA Guideline 164-5 Bioaccumulation in Fish" as Mobay Report Number 100236. The Performing Laboratory ID Number on both studies is ABC Labs No. 38466.

8. RECOMMENDATIONS:

EFWGB is returning the above study (MRID 41618818) without review. The study submitted under "FIFRA Guideline 164-5 Bioaccumulation in Fish" (MRID 41618811) will be retained by EFGWB and reviewed under FIFRA Guideline 165-4 (Laboratory Accumulation in Fish) as part of data package D166322.